Birds & Wetlands of Alaska  Grade 4 Curriculum
addresses the following Alaska State Teaching Standards

**Unit One: Birds You Know**

**Worksheet 1-A Your Bird List**

**Language Arts:**
B-1 Meaning from written, oral, and visual information
C-2 Project organization

**Science:**
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

**Worksheet 1-B Class Bird List**

**Science:**
A-15 Using local knowledge
C-5 Collaboration

**Worksheet 1-C Field Guide**

**Language Arts:**
A-1 Effective writing
B-1 Meaning from written, oral, and visual information
C-2 Project organization
C-4 Project quality

**Science:**
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

**Unit Two: Definition of a Bird**

**Worksheet 2-A What is a Bird?**

**Language Arts:**
B-1 Meaning from written, oral, and visual information

**Science:**
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

**Worksheet 2-B Make a Feather Pen**

**Arts:**
A-3 Materials, tools, techniques, and processes

**Worksheet 2-C How Birds Fly**

**Science:**
A-5 Forces of nature
A-12 Biological diversity
A-14 Living things and their environments
C-2 Knowledge through experimentation
C-6 Scientific discovery

**Worksheet 2-D Flight Strategies**

**Language Arts:**
A-1 Effective writing

**Science:**
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

**Unit Three: Parts of a Bird**

**Worksheet 3-A Making a Living**

**Science:**
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

**Worksheet 3-B Types of Beaks**

**Science:**
A-12 Biological diversity

**Worksheet 3-C Types of Feet**

**Science:**
A-12 Biological diversity
Unit Four: Bird Watching
Worksheet 4-A Make a Bird Feeder
Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-5 Collaboration
D-1,3 Practical applications of scientific knowledge

Math:
A-2 Measurement
B-3 Using math in real-life situations

Worksheet 4-B Field Marks
Language Arts:
A-1 Effective writing
B-1 Meaning from written, oral, and visual information

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-2 Tools of scientific investigation

Worksheet 4-C Name & Color These Birds!
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-2 Tools of scientific investigation

Art:
A-1 Participate in the arts

Worksheet 4-D Alaska Bird Regions
Language Arts:
A-1 Effective writing
B-1 Meaning from written, oral, and visual information

Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
B-1 Scientific processes
C-5 Collaboration
C-6 Scientific discovery

Unit Five: Bird Migration
Worksheet 5-A Alaska Bird Migrations
AND
Worksheet 5-B Bird Wintering Areas
AND
Worksheet 5-C Alaska Bird Migration Map
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-6 Scientific discovery

Geography:
A-1 Using maps

Unit Six: Wetland Habitats
Worksheet 6-A What Makes a Habitat?
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

Arts:
A-1 Participate in the arts
A-4 Demonstrate creativity

Worksheet 6-B Coastal Wetlands
Science:
A-12 Biological diversity
A-14 Living things and their environments
B-3 Understand that scientific inquiry involves multiple paths

Worksheet 6-C Estuary: A Very Special Place
Language Arts:
A-1 Effective writing
A-2 Writing conventions
B-1 Meaning from written, oral, and visual information

Science:
A-14 Living things and their environments
Worksheet 6-D Wet Tundra
Science:
A-12 Biological diversity
A-14 Living things and their environments

Worksheet 6-E Rivers, Lakes & Marshes
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-5 Collaboration

Worksheet 6-F Muskeg
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-2 Knowledge through experimentation

Worksheet 6-G Other Bird Habitats
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-2 Knowledge through experimentation

Worksheet 6-H Habitat Choice
Language Arts:
A-1 Effective writing
Science:
A-14 Living things and their environments

Unit Seven: Nests
Worksheet 7-A Altricial or Precocial?
Language Arts:
A-1 Effective writing
A-4 Writing and speaking with purpose
D-1-A Personal experience and prior knowledge
Science:
A-12 Biological diversity
A-14 Living things and their environments

Worksheet 7-B Coastal Wetland Nest Sites AND Worksheet 7-C River, Lake, & Marsh Nest Sites

Worksheet 7-D Canada Geese: Precocial Birds AND Worksheet 7-E The Bald Eagle: An Altricial Bird
Science:
A-12 Biological diversity
A-14 Living things and their environments

Art:
A-1 Participate in the arts
A-4 Demonstrate creativity

Unit Eight: Wetland Plants & Animals
Worksheet 8-A Wetland Crossword
Language Arts:
B-1 Meaning from written, oral, and visual information
Science:
A-12 Biological diversity
A-14 Living things and their environments

Worksheet 8-B Wetlands Plants Game
Science:
A-12 Biological diversity
A-14 Living things and their environments
B-3 Understand that scientific inquiry involves multiple paths

Unit Nine: Wetlands Field Trip
Worksheet 9-A Map Time
Geography:
A-1 Using maps

Worksheet 9-B Field Notes
Language Arts:
B-1 Meaning from written, oral, and visual information
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge

Worksheet 9-C Wetlands Checklist
Science:
A-12 Biological diversity
A-14 Living things and their environments
C-5 Collaboration

Unit Ten: Birds Benefit People
Worksheet 10-A Birds and People
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences

Worksheet 10-B Habitat Protection for Wild Birds
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences

Math:
A-1 Numeration
A-3 Arithmetic and computation
B-3 Using math in real-life situations

Government:
E-2 Citizens’ responsibilities

Worksheet 10-C Spring Birds
Science:
A-12 Biological diversity
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences

Worksheet 10-D Seabird Conservation
Language Arts:
A-1 Effective writing

Science:
A-14 Living things and their environments

Math:
A-3 Arithmetic and computation

Unit Eleven: Wetlands Benefit People
Worksheet 11-A Wetland Values
Language Arts:
A-1 Effective writing

Science:
A-12 Biological diversity
A-14 Living things and their environments

Worksheet 11-B Wetland Habitat Protection
Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
C-5 Collaboration

Worksheet 11-C Wetlands Development
Language Arts:
A-4 Writing and speaking with purpose
D-1 Developing a logical position

Science:
A-14 Living things and their environments
A-15 Using local knowledge
C-3 Cultural influences
D-4 Social benefits of science

Government:
E-2 Citizens’ responsibilities
E-6 Community service
E-7 Problem solving and conflict resolution

Unit Twelve: Review (no new standards addressed)